

DERWENT-ACC-NO: 2002-691673

DERWENT-WEEK: 200337

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Multilayer chirped mirror for
causing preset negative/positive group delay time
has multiple individual layers contiguous via
parallel, planar boundary layers and applied to
support substrate

INVENTOR: KRAUSZ, F; TEMPEA, G F

PATENT-ASSIGNEE: FEMTOLASERS PRODN GMBH[FEMTN]

PRIORITY-DATA: 2001AT-0000302 (February 26, 2001)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
AT 410721 B		May 15, 2003	N/A
000	G02B	005/08	
WO 200268999 A2		September 6, 2002	G
020	G02B	005/00	
AT 200100302 A		November 15, 2002	N/A
000	G02B	005/08	

DESIGNATED-STATES: AE AG AL AM AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU DM DZ
EC ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SL TJ TM TN TR TT
TZ UA UG US UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR
GB GH GM GR IE IT
KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
AT 410721B		N/A	

2001AT-0000302	February 26, 2001	
AT 410721B	Previous Publ.	AT 200100302
N/A		
WO 200268999A2	N/A	
2002WO-AT00057	February 21, 2002	
AT 200100302A	N/A	
2001AT-0000302	February 26, 2001	

INT-CL (IPC): G02B005/00, G02B005/08 , H01S003/08

ABSTRACTED-PUB-NO: WO 200268999A

BASIC-ABSTRACT:

NOVELTY - Multiple individual layers (2,3) applied to a support substrate (4) are contiguous via parallel, planar boundary layers and have different optical constants and different thicknesses. A wedge-shaped front glass platelet (5) fastens on an outer individual layer (2) facing away from the support substrate by means of optical bonding.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for producing a multilayer chirped mirror.

USE - In laser devices.

ADVANTAGE - It is possible to have the mirror's impedance ideally adapted to an external medium. Surface quality, e.g. in a range of $\lambda/6$ - $\lambda/10$, can be suitable for laser applications.

DESCRIPTION OF DRAWING(S) - The drawing shows a structural diagram of a multilayer chirped mirror with a wedge-shaped front glass platelet.

Multiple individual layers 2,3

Support substrate 4

Wedge-shaped front glass platelet 5

Outer individual layer 2

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: MULTILAYER CHIRP MIRROR CAUSE PRESET NEGATIVE
POSITIVE GROUP DELAY

TIME MULTIPLE INDIVIDUAL LAYER CONTIGUOUS
PARALLEL PLANE BOUNDARY
LAYER APPLY SUPPORT SUBSTRATE

DERWENT-CLASS: P81 U12 V07 V08

EPI-CODES: U12-A01B; V07-F02A; V08-A01A; V08-A04A;
V08-A04C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2002-545644